1652 0427 OIPE

# CRF Errors Corrected by th STIC Systems Branch

Serial Number: 10/071,338

CRF Processing Date: 3/19/2002
Edited by:
Verified by: _____ (STIC staff) 3/5/12

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

RECEIVED
APR 18 2002
TECH CENTER 1600/2900

*Examiner: Th abov corrections must b communicated to th applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING DATE: 03/19/2002
PATENT APPLICATION: US/10/071,338 TIME: 18:47:50

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

SEQUENCE LISTING

(1) GENERAL INFORMATION:
(i) APPLICANT: SmithKline Beecham plc et al
(ii) TITLE OF INVENTION: Novel compounds
(iii) NUMBER OF SEQUENCES: 19
(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: SmithKline Beecham
(B) STREET: Two, New Horizons Court, Great West Road
(C) CITY: Brentford
(D) STATE:
(E) COUNTRY: UK
(F) ZIP: TW8 9EP
(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
(D) SOFTWARE: FastSEQ for Windows Version 2.0
(vi) CURRENT APPLICATION DATA:
C--> **(A) APPLICATION NUMBER: US/10/071,338**
C--> **(B) FILING DATE: 08-Feb-2002**
(C) CLASSIFICATION:
(vii) PRIOR APPLICATION DATA:
(A) APPLICATION NUMBER:
(B) FILING DATE:
(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Valentine, Jill B
(B) REGISTRATION NUMBER:
(C) REFERENCE/DOCKET NUMBER: P31731
(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: 0181-9752000
(B) TELEFAX: 0181-9756294
(C) TELEX:
(2) INFORMATION FOR SEQ ID NO: 1:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 7193 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: Other
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CCATGGCGGG CGGCGGCTGC CCCGGAGCCT CGGCCGGACC GGTGACCAGG ACCACCCCGG 60
TGGGATAGTG GCCCGCCACC CGGCGCAGCA GACTCCCGGA CACGGACCCG TGGGTGTGCG 120
CGGAAAGGCC CGGAGGCCGG GTCACAGCCA CGGGTAACGC GCGGTGTCCT TGCCCGCGTA 180

RAW SEQUENCE LISTING DATE: 03/19/2002
PATENT APPLICATION: US/10/071,338 TIME: 18:47:50

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

| | | |
|---|---|---|
| 43 | ATCGGGGTCC AGATAGACGA AGGCCCGGTG GACGAGGAAG TCCCGCACCT CGTAGACCGT | 240 |
| 44 | GCACCAGCGC CCGGCGGCCC ACTCGGGGTC ACCCGCCCGC CACGGCCCGT CCCGGTGCTC | 300 |
| 45 | ACCGTGGGTG GTGCCCTCCG CGGCGAGGAG TTCGGTCCCG GTCAGAATCC AGTTGACGGA | 360 |
| 46 | CCACAGATGG TGGGTGATCG AGCGGATGGT GCCCCCGAGG TCGTCGAAGA GCCGGGCGAT | 420 |
| 47 | CTCGGACTTG CCCCGGGCCA GACCCCACTT GGGGAAGAAG AAGACCGCGT CCTCGGCGAA | 480 |
| 48 | GTAGTCGATC GCGGGGGTGC CGTCGCTGCC GACGCCGCCG TTGTCGAACG CCTTGAAGTA | 540 |
| 49 | CGCGGTGATG ACCGCCTTGC GCTGCTCGTC CGTCATACCG GCCGATGCCA CGGACATGAA | 600 |
| 50 | ACGACCTCCA GAGATTCCGG GTGGCTGTGC TGGGGCTGCG GAAGGGGTGT CCCCCGCGAA | 660 |
| 51 | GGACGGCGGA CGCCGCGGAC GCCGCGGCCG TCTCCCCGGC GGACGGGTCC CAGCGTCCTG | 720 |
| 52 | GAGAGGGCTT GGCGGCGGCT TGACGCCGTG CTGTCCCGCG GCTTGCGGAA CGCGAAGTAC | 780 |
| 53 | CGGCCAGCGT ACGGGCGTTG CACCGGACGT GTACGCCGGT CGGGACCCCT CGTACCCCCG | 840 |
| 54 | GAGCCGGCCG ACCCCGGCGG CTCCGGGGGT ACGGACGCGC CGGACCGGCC CGAGCGAGCC | 900 |
| 55 | GGACGGGTCG GACGGTGCGC GTGGTTCCGG TGTGTCGGAC AGCTCGGACG GACCGGACGG | 960 |
| 56 | TGCGCGTGGT TCCGGTGTGT CGGACAGCTC GGACGGGTCG GACGGTGCGC GTGGTTCCGG | 1020 |
| 57 | CACGCCGGAC GGGTCAGTTG CCGATCATGG CGAGCAATGC CGGGGTGTAC CGCTCCCCGG | 1080 |
| 58 | ACACCGGGTG GGAGATCGCG GCCGTCACCT CCGCGAGGGA CCGGTCGTCC AGCCGGATCG | 1140 |
| 59 | AGGCGGCGGC GAGATTGTCC GCGAGATGGG CCGGGTTCGC GGTGCCCGGG ATCGGGACGA | 1200 |
| 60 | CGTCCTCGCC CCGGTGGTGC AGCCAGGCGA GCGCGAGCTG TGCCAGGGTC AGCCCCAGAC | 1260 |
| 61 | CGTCCGCGAC CGGGCGCAGC CGGTGCAGCA ACGAGCGGTT GCGCGCGAGG GCCGGAGCGC | 1320 |
| 62 | TGAACCGGGG CTGGCCCCGG CGGAAGTCCT CGTCCCCCAG ATCGTCGGTG GTGCGGATGG | 1380 |
| 63 | TGCCGGTGAG AAAACCCCGT CCCAGAGGGG CGTAAGCGAC GATCCCGATC CCCAGCTCCC | 1440 |
| 64 | GGCAGACGGG CACCACCTCG TCCTCGATCC CGCGCGACCA CAGGCTCCAC TCGCTCTGCA | 1500 |
| 65 | CCGCCGTCAC CGGGTGCACC GCGTCCGCCC GGCGCAGCGT GGCCGCGGAG GGCTCGGAGA | 1560 |
| 66 | GACCGAGCCT GCGGACCTTG CCCTCGCGCA CCAGCTCGGC CACCGCACCC ACGGTCTCCT | 1620 |
| 67 | CGATCGGCAC CGCCGGGTCC GTCCAGTGCT GGTAGTACAG GTCGATGCGG TCGGTGCCGA | 1680 |
| 68 | GACGACGCAG GGACCGTTCG CAGGCCGCGC GGACGTAGGA CGGCTCGCCG CACAAGCCCT | 1740 |
| 69 | GGGAGGCGCC GTCGGACGAG CGCACCATGC CGAACTTGGT GGCGATCAGC ACCTCGTCCC | 1800 |
| 70 | GGCGGCCCGC GACCGCCCGT CCGAGCAGCT CCTCACCGGC GCCGAGCCCC TGGACGTCGG | 1860 |
| 71 | CGGTGTCCAG CAGGGTGACC CCGGCGTCGA CGGCGGCGCG GATGGTGGCC GTCGCCCGGG | 1920 |
| 72 | CGCGGTCCGG GCGTCCGTAG AAGTCGGTGG TCGGCAGGCA GCCGAGCCCC TGGGCACTGA | 1980 |
| 73 | CCGGAAGGTC CCGCAGGGCG CGGACCGGCG GACGCGGAAC CGCGGCGGAC ACGGAACCGG | 2040 |
| 74 | CCGGGGACTC GGGCGGAGAG CGGGACATAC GGAACCTCCA CAGGCGGAGC CGGGAACGGG | 2100 |
| 75 | ACGAGGGCGA GGACGGGACG GAACGAAGGA GAGGACGGGA CGGACAGCAC GGACGGGACG | 2160 |
| 76 | GACGGAACGG AGTCGGGAAC CGGGGGGGGT GACCGGAACC GGGCCGTCCT TGGCCCTCCC | 2220 |
| 77 | CCGTCCTCCC CGCCATCCGC CGTTCTCCCC CGTTCCCTCT CCCGTCCTCC AGCCAACACC | 2280 |
| 78 | GCCGCCCTTT CCAAGCGCTT GACACGGCAC CGACAGCCGC CGCCGGGCGC CCGATGGGGA | 2340 |
| 79 | CCCGTGCCCG CCGGTGAGCG GCGGTGAGCG CCGGTACGGG ACCCCACGCG CCGCCGCCCG | 2400 |
| 80 | GGCGCCCGCC AGGGCCCGCG CGGCCACCCC GGCCCGCCCC GGCCGGAGCG GCGATCCGGG | 2460 |
| 81 | CCGCTCGCTG CAAGAGGAAC ATCCACAGCC GCACAAGGAG CGCTCCGCAC AGTGGGCACC | 2520 |
| 82 | ACGTCCGCCC CGTCCCCCAC ACCGTGGCCG GTCCCCACCG GACAGCACAG CACCGCACAG | 2580 |
| 83 | CACCACATCG CACGGCACAG CACAGCACCA CCGGCACGAG GAACCAAGGA AAGGAACCAC | 2640 |
| 84 | ACCACCATGA CCTCAGTGGA CTGCACCGCG TACGGCCCCG AGCTGCGCGC GCTCGCCGCC | 2700 |
| 85 | CGGCTGCCCC GGACCCCCCG GGCCGACCTG TACGCCTTCC TGGACGCCGC GCACACAGCC | 2760 |
| 86 | GCCGCCTCGC TCCCCGGCGC CCTCGCCACC GCGCTGGACA CCTTCAACGC CGAGGGCAGC | 2820 |
| 87 | GAGGACGGCC ATCTGCTGCT GCGCGGCCTC CCGGTGGAGG CCGACGCCGA CCTCCCCACC | 2880 |
| 88 | ACCCCGAGCA GCACCCCGGC GCCCGAGGAC CGCTCCCTGC TGACCATGGA GGCCATGCTC | 2940 |
| 89 | GGACTGGTGG GCCGCCGGCT CGGTCTGCAC ACGGGGTACC GGGAGCTGCG CTCGGGCACG | 3000 |
| 90 | GTCTACCACG ACGTGTACCC GTCGCCCGGC GCGCACCACC TGTCCTCGGA GACCTCCGAG | 3060 |
| 91 | ACGCTGCTGG AGTTCCACAC GGAGATGGCC TACCACCGGC TCCAGCCGAA CTACGTCATG | 3120 |

RAW SEQUENCE LISTING DATE: 03/19/2002
PATENT APPLICATION: US/10/071,338 TIME: 18:47:50

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

92 CTGGCCTGCT CCCGGGCCGA CCACGAGCGC ACGGCGGCCA CACTCGTCGC CTCGGTCCGC 3180
93 AAGGCGCTGC CCCTGCTGGA CGAGAGGACC CGGGCCCGGC TCCTCGACCG GAGGATGCCC 3240
94 TGCTGCGTGG ATGTGGCCTT CCGCGGCGGG GTGGACGACC CGGGCGCCAT CGCCCAGGTC 3300
95 AAACCGCTCT ACGGGGACGC GGACGATCCC TTCCTCGGGT ACGACCGCGA GCTGCTGGCG 3360
96 CCGGAGGACC CCGCGGACAA GGAGGCCGTC GCCGCCCTGT CCAAGGCGCT CGACGAGGTC 3420
97 ACGGAGGCGG TGTATCTGGA GCCCGGCGAT CTGCTGATCG TCGACAACTT CCGCACCACG 3480
98 CACGCGCGGA CGCCGTTCTC GCCCCGCTGG GACGGGAAGG ACCGCTGGCT GCACCGCGTC 3540
99 TACATCCGCA CCGACCGCAA TGGACAGCTC TCCGGCGGCG AGCGCGCGGG CGACGTCGTC 3600
100 GCCTTCACAC CGCGCGGCTG AGCTCCCGGG TCCGACACCG CGCGGCTGAA CCCACGGTCC 3660
101 GGGGCCCACG GTCCGGCACC GCGCGGCTGA GCCCCCGGGT CCGGCAGCGG GCGGCTGAAC 3720
102 CCCCGCCCCG GGCCACCGCC CGACCGCCCC CGCGCACCGG ACGCGCCCGC CTGTACGGCG 3780
103 GTCCCGCCCG GGCCCGTACA CCTGAAGCGC CCGGCGGACC GCCGCCCCGC CGGGGGACGG 3840
104 ACAGAGCCGG GTGCGGGAGG ACGTCCTCCC GCACCCGGCT CCCACCGTTC CGCACCGACC 3900
105 GCACCCGACC GTGCCGCAGG CGCCACCGGC ACCGCACCGC CCGCGCCGGC AGCCACCACA 3960
106 GGCGCCACGC CGCCCGCACG GTGCCCGCGC TGCTCAGCCC CCGTCCACCG GGCTGTCCAG 4020
107 CAGCCGCCGC AGCGCGCCCC CGATGAACTC CCGGTCGGCG GCCGACCCCC CGGACCCCGC 4080
108 GAGATGCCCC CACACTCCCG GGATCACCTC CAGCGAGGCA TACGGCAGCA GATCGGCCAC 4140
109 CCGCTTCTCG TCCTCGACGG CGAAACACAC GTCCAGGGCG CCCGGCAGCA CCACGGCCCG 4200
110 CGCCGTGACG GAGGCCAGCG CCGCCTCGAC GCTCCCCCCG GCCCCGGGTG TCGCCCCCAC 4260
111 ATCCGTGTTC TCCCAGGTGC GCACCATGGT GAGCAGATCC GCGGCGCCGG GCCCGGAGAG 4320
112 GAAGACCTGC TCCCAGAAGC CGGTGAGGTA CTCCTCGCGG GTGGCGAAAC CCAGCTCCCG 4380
113 GTGGGCACGG CGGGCCCAGA AGGAACGCGA GGTCCCCCAC CCGGCGAACA CCCGGCCCGC 4440
114 CGCCTTCCGC CCCCGCTCCC CGGCGTCGGC GCTGAGCGCC GCGGCCAGAC CGGACAGCAG 4500
115 GACCAGGCTG TGCGGGCTGC TCACCGGCGC CCCGCAGATC GGGGCGATCC GGCGCACCAT 4560
116 CCCCGGATGC GACACGGCCC ACTGGTAGGC GTGGGCCGCG CCCATCGACC AGCCCGTGAC 4620
117 CAGGGCCAGT TCCCGTACCC CCAGCTCCTC GGTGAGCAGC CGGTGCTGCG CCGCGACATT 4680
118 GTCCTGCGGA GTGATCAGCG GAAAGCGGGA CCCCGACGGG TGGTTGCCGG GCGAGCTGGA 4740
119 GACCCCGTTG CCGAAGAGTC CGGCGGTGAC GACGCAGTAC CGCCGGGTGT CCAGCGGCAG 4800
120 CCCCGCACCG ATCAGCCAGT CGTACCCGGT GTGGTCCCGG CCGAAGAACG ACGGACAGAG 4860
121 CACCACGTTC GTCCCGTCGG CGTTCGGCGT GCCGTACATG GCGTAACCGA TCCGGGCGTC 4920
122 CCGCAGGACC TCCCCGTCCA GCAACGGCAG TTCGTCGATC TCGAATATGC GGCATTCCAC 4980
123 CGCTGACCTC CTTGTTCGAT CCCCCCGGAC AACAGGTCGG TCGTGGCCGG AGACTCAGAG 5040
124 CCAGTTGGGG GCGATCTCGG TGGCCCACAG CTCCAGGCTG CGCAGCTGGA CATCGTGCGG 5100
125 GATCAGCCCG GAGTACTGGC ACTGGAGCAG ATACTCCGGA TCGTGCCGCT CCACCAGCTT 5160
126 CTCGATCATG CGGTTGATGT CGTCCGGGGT GCCGACCCAC TCCAGCCCCC GGTCGACCAG 5220
127 GGTCTTGTAG TCCGAGCCGA TCGGACCCGT CTCGCCGGTC GCGCGCAGCG CCTCGGTGAA 5280
128 GCCCATGGGG CCGAACCAGT TCTCGAAGAT GAAGCCGCCG CCGCGGGACG CCCAGTGGTG 5340
129 GGCCTCGCCG GAGTCCCGGG AGACCAGGAC GTCCTTCATC ACCCCGACCC GCTCGCCCCG 5400
130 CCGCAGGGTG CCGTGGCCCG CCGCCTCGGC CTCCTCCCGG TAGATGTCCA TCAGCCGGGC 5460
131 GACGATCTGG TCGTCGGTGT TCATCAGGAT CGGCACCACG CCCTCCCGGG CACAGAACCG 5520
132 GAACGTGTCC TCACTGAAGC TGAACGGCTG GAAGACGGGC GGGTGGGGGC GCTGGTAGGG 5580
133 CTTGGGCGCG ATGCCCACCT CGCGGATGAC GCCGTTCTCG TCGAGGCCCC GGCCGTAGCG 5640
134 GCGCACCGCC TCGTAGGGGA ACTCCAGGTC CGGCACCGGG ATCGTCCACT GCTCCCCGGA 5700
135 GTGGGTGAAC GTCTCGGTCG TCCACGCCTT CTTGATGATC TCCCAGTGCT CCTCGAAGAG 5760
136 GGCACGATTG CGCCGGTCCC GCTCCCCGGC GTCGGACAGG GTGCCGCCGA CCCCGTACAC 5820
137 CTGCCCCATG ATGTCGGCCC AGCGCTTCTG GAACCCGCGC GCGATCCCGA CGAAGGCGCG 5880
138 GCCCCGGGTC ATGTGGTCGA GCATCGCCAG ATCCTCGGCC AGCCGCAGCG GATTGTGCAG 5940
139 CGGCAGGACG TTGGCCATCT GGCCGACCCG GATGTGCCGG GTCTGCATGC CGAGGTAGAG 6000
140 CCCCAGCATG ATCGGGTTGT TGGAGACCTC GAAACCCTCG GTGTGGAAGT GGTGCTCGGT 6060

RAW SEQUENCE LISTING DATE: 03/19/2002
PATENT APPLICATION: US/10/071,338 TIME: 18:47:50

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

GAAGGACAGT CCCCAGTAGC CGAGTTCGTC GGCCGCCTGC GCCTGCCGGG TGAGCTGCCG 6120
GAGCATGTTC TGGTAGTTCT GCGGATTGAC CCCCGCCATA CCCCGCTGGA CCTGCGCATG 6180
ACTGCCGACC GTTGGCAGAT AGAAGAGAAT GGACTTCACC CTGGCTCCTC CGGTTCGCGG 6240
CGCCCTCCAT TGACGTGCGC CGAAAGCGGC TCGACCGTCC CACTCCGCCC TTGAGTTCCG 6300
TCTGACGCCG CGCCAGTCGG CGGGCCGTCC GCCGGGGTGC CCGCCGGGGT CCGCACCCGC 6360
CGGACGGCAC GGCGCGCACC GCGCGCGCGG CGCTTCGGGG CACCGGGCTC GACGGGGTGC 6420
TCAGCGGGAC GTCCAACGGA AGGCAAGCCC CCGTACCCAG CCTGGTCAAG GCGCTCATCG 6480
CCATTCCCTG AGGAGGTCCC GCCTTGACCA CAGCAATCTC CGCGCTCCCG ACCGTGCCCG 6540
GCTCCGGACT CGAAGCACTG GACCGTGCCA CCCTCATCCA CCCCACCCTC TCCGGAAACA 6600
CCGCGGAACG GATCGTGCTG ACCTCGGGGT CCGGCAGCCG GGTCCGCGAC ACCGACGGCC 6660
GGGAGTACCT GGACGCGAGC GCCGTCCTCG GGGTGACCCA GGTGGGCCAC GGCCGGGCCG 6720
AGCTGGCCCG GGTCGCGGCC GAGCAGATGG CCCGGCTGGA GTACTTCCAC ACCTGGGGGA 6780
CGATCAGCAA CGACCGGGCG GTGGAGCTGG CGGCACGGCT GGTGGGGCTG AGCCCGGAGC 6840
CGCTGACCCG CGTCTACTTC ACCAGCGGCG GGGCCGAGGG CAACGAGATC GCCCTGCGGA 6900
TGGCCCGGCT CTACCACCAC CGGCGCGGGG AGTCCGCCCG TACCTGGATA CTCTCCCGCC 6960
GGTCGGCCTA CCACGGCGTC GGATACGGCA GCGGCGGCGT CACCGGCTTC CCCGCCTACC 7020
ACCAGGGCTT CGGCCCCTCC CTCCCGGACG TCGACTTCCT GACCCCGCCG CAGCCCTACC 7080
GCCGGGAGCT GTTCGCCGGT TCCGACGTCA CCGACTTCTG CCTCGCCGAA CTGCGCGAGA 7140
CCATCGACCG GATCGGCCCG GAGCGGATCG CGGCGATGAT CGGCGAGCCG ATC 7193

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 145 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GTGACCCGGC CTCCGGGCCT TTCCGCGCAC ACCCACGGGT CCGTGTCCGG GAGTCTGCTG 60
CGCCGGGTGG CGGGCCACTA TCCCACCGGG GTGGTCCTGG TCACCGGTCC GGCCGAGGCT 120
CCGGGGCAGC CGCCGCCCGC CATGG 145

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 453 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Other

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

ATGTCCGTGG CATCGGCCGG TATGACGGAC GAGCAGCGCA AGGCGGTCAT CACCGCGTAC 60
TTCAAGGCGT TCGACAACGG CGGCGTCGGC AGCGACGGCA CCCCCGCGAT CGACTACTTC 120
GCCGAGGACG CGGTCTTCTT CTTCCCCAAG TGGGGTCTGG CCCGGGGCAA GTCCGAGATC 180
GCCCGGCTCT TCGACGACCT CGGGGGCACC ATCCGCTCGA TCACCCACCA TCTGTGGTCC 240
GTCAACTGGA TTCTGACCGG GACCGAACTC CTCGCCGCGG AGGGCACCAC CCACGGTGAG 300
CACCGGGACG GGCCGTGGCG GGCGGGTGAC CCCGAGTGGG CCGCCGGGCG CTGGTGCACG 360
GTCTACGAGG TGCGGGACTT CCTCGTCCAC CGGGCCTTCG TCTATCTGGA CCCCGATTAC 420
GCGGGCAAGG ACACCGCGCG TTACCCGTGG CTG 453

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1032 base pairs

RAW SEQUENCE LISTING DATE: 03/19/2002
PATENT APPLICATION: US/10/071,338 TIME: 18:47:50

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: Other
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

ATGTCCCGCT CTCCGCCCGA GTCCCCGGCC GGTTCCGTGT CCGCCGCGGT TCCGCGTCCG 60
CCGGTCCGCG CCCTGCGGGA CCTTCCGGTC AGTGCCCAGG GGCTCGGCTG CCTGCCGACC 120
ACCGACTTCT ACGGACGCCC GGACCGCGCC CGGGCGACGG CCACCATCCG CGCCGCCGTC 180
GACGCCGGGG TCACCCTGCT GGACACCGCC GACGTCCAGG GGCTCGGCGC CGGTGAGGAG 240
CTGCTCGGAC GGGCGGTCGC GGGCCGCCGG GACGAGGTGC TGATCGCCAC CAAGTTCGGC 300
ATGGTGCGCT CGTCCGACGG CGCCTCCCAG GGCTTGTGCG GCGAGCCGTC CTACGTCCGC 360
GCGGCCTGCG AACGGTCCCT GCGTCGTCTC GGCACCGACC GCATCGACCT GTACTACCAG 420
CACTGGACGG ACCCGGCGGT GCCGATCGAG GAGACCGTGG GTGCGGTGGC CGAGCTGGTG 480
CGCGAGGGCA AGGTCCGCAG GCTCGGTCTC TCCGAGCCCT CCGCGGCCAC GCTGCGCCGG 540
GCGGACGCGG TGCACCCGGT GACGGCGGTG CAGAGCGAGT GGAGCCTGTG GTCGCGCGGG 600
ATCGAGGACG AGGTGGTGCC CGTCTGCCGG GAGCTGGGGA TCGGGATCGT CGCTTACGCC 660
CCTCTGGGAC GGGGTTTTCT CACCGGCACC ATCCGCACCA CCGACGATCT GGGGGACGAG 720
GACTTCCGCC GGGGCCAGCC CCGGTTCAGC GCTCCGGCCC TCGCGCGCAA CCGCTCGTTG 780
CTGCACCGGC TGCGCCCGGT CGCGGACGGT CTGGGGCTGA CCCTGGCACA GCTCGCGCTC 840
GCCTGGCTGC ACCACCGGGG CGAGGACGTC GTCCCGATCC CGGGCACCGC GAACCCGGCC 900
CATCTCGCGG ACAATCTCGC CGCCGCCTCG ATCCGGCTGG ACGACCGGTC CCTCGCGGAG 960
GTGACGGCCG CGATCTCCCA CCCGGTGTCC GGGGAGCGGT ACACCCCGGC ATTGCTCGCC 1020
ATGATCGGCA AC 1032

(2) INFORMATION FOR SEQ ID NO: 5:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 984 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: Other
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

GTGGAATGCC GCATATTCGA GATCGACGAA CTGCCGTTGC TGGACGGGGA GGTCCTGCGG 60
GACGCCCGGA TCGGTTACGC CATGTACGGC ACGCCGAACG CCGACGGGAC GAACGTGGTG 120
CTCTGTCCGT CGTTCTTCGG CCGGGACCAC ACCGGGTACG ACTGGCTGAT CGGTGCGGGG 180
CTGCCGCTGG ACACCCGGCG GTACTGCGTC GTCACCGCCG GACTCTTCGG CAACGGGGTC 240
TCCAGCTCGC CCGGCAACCA CCCGTCGGGG TCCCGCTTTC CGCTGATCAC TCCGCAGGAC 300
AATGTCGCGG CGCAGCACCG GCTGCTCACC GAGGAGCTGG GGGTACGGGA ACTGGCCCTG 360
GTCACGGGCT GGTCGATGGG CGCGGCCCAC GCCTACCAGT GGGCCGTGTC GCATCCGGGG 420
ATGGTGCGCC GGATCGCCCC GATCTGCGGG GCGCCGGTGA GCAGCCCGCA CAGCCTGGTC 480
CTGCTGTCCG GTCTGGCCGC GGCGCTCAGC GCCGACGCCG GGGAGCGGGG GCGGAAGGCG 540
GCGGGCCGGG TGTTCGCCGG GTGGGGGACC TCGCGTTCCT TCTGGGCCCG CCGTGCCCAC 600
CGGGAGCTGG GTTTCGCCAC CCGCGAGGAG TACCTCACCG GCTTCTGGGA GCAGGTCTTC 660
CTCTCCGGGC CCGGCGCCGC GGATCTGCTC ACCATGGTGC GCACCTGGGA GAACACGGAT 720
GTGGGGGCGA CACCCGGGGC CGGGGGGAGC GTCGAGGCGG CGCTGGCCTC CGTCACGGCG 780
CGGGCCGTGG TGCTGCCGGG CGCCCTGGAC GTGTGTTTCG CCGTCGAGGA CGAGAAGCGG 840
GTGGCCGATC TGCTGCCGTA TGCCTCGCTG GAGGTGATCC CGGGAGTGTG GGGGCATCTC 900
GCGGGGTCCG GGGGGTCGGC CGCCGACCGG GAGTTCATCG GGGGCGCGCT GCGGCGGCTG 960
CTGGACAGCC CGGTGGACGG GGGC 984

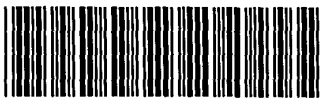
(2) INFORMATION FOR SEQ ID NO: 6:

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/071,338

DATE: 03/19/2002
TIME: 18:47:51

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

L:18 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:19 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]



OIPE

RAW SEQUENCE LISTING DATE: 03/19/2002
PATENT APPLICATION: US/10/071,338 TIME: 17:52:50

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

```
  1 (1) GENERAL INFORMATION:
  2      (i) APPLICANT: SmithKline Beecham plc et al
  3     (ii) TITLE OF INVENTION: Novel compounds
  4    (iii) NUMBER OF SEQUENCES: 19
  5     (iv) CORRESPONDENCE ADDRESS:
  6           (A) ADDRESSEE: SmithKline Beecham
  7           (B) STREET: Two, New Horizons Court, Great West Road
  8           (C) CITY: Brentford
  9           (D) STATE:
 10           (E) COUNTRY: UK
 11           (F) ZIP: TW8 9EP
 12      (v) COMPUTER READABLE FORM:
 13           (A) MEDIUM TYPE: Diskette
 14           (B) COMPUTER: IBM Compatible
 15           (C) OPERATING SYSTEM: DOS
 16           (D) SOFTWARE: FastSEQ for Windows Version 2.0
 17     (vi) CURRENT APPLICATION DATA:
C--> 18           (A) APPLICATION NUMBER: US/10/071,338
C--> 19           (B) FILING DATE: 08-Feb-2002
 20           (C) CLASSIFICATION:
 21    (vii) PRIOR APPLICATION DATA:
 22           (A) APPLICATION NUMBER:
 23           (B) FILING DATE:
 24   (viii) ATTORNEY/AGENT INFORMATION:
 25           (A) NAME: Valentine, Jill B
 26           (B) REGISTRATION NUMBER:
 27           (C) REFERENCE/DOCKET NUMBER: P31731
 28     (ix) TELECOMMUNICATION INFORMATION:
 29           (A) TELEPHONE: 0181-9752000
 30           (B) TELEFAX: 0181-9756294
 31           (C) TELEX:
```

ERRORED SEQUENCES

```
602 (2) INFORMATION FOR SEQ ID NO: 19:
603      (i) SEQUENCE CHARACTERISTICS:
604           (A) LENGTH: 324 amino acids
605           (B) TYPE: amino acid
606           (C) STRANDEDNESS: single
607           (D) TOPOLOGY: linear
608     (ii) MOLECULE TYPE: protein
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/071,338

DATE: 03/19/2002
TIME: 17:52:50

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

Met Thr Ser Val Asp Cys Thr Ala Tyr Gly Pro Glu Leu Arg Ala Leu
1 5 10 15
Ala Ala Arg Leu Pro Arg Thr Pro Arg Ala Asp Leu Tyr Ala Phe Leu
20 25 30
Asp Ala Ala His Thr Ala Ala Ala Ser Leu Pro Gly Ala Leu Ala Thr
35 40 45
Ala Leu Asp Thr Phe Asn Ala Glu Gly Ser Glu Asp Gly His Leu Leu
50 55 60
Leu Arg Gly Leu Pro Val Glu Ala Asp Ala Asp Leu Pro Thr Thr Pro
65 70 75 80
Ser Ser Thr Pro Ala Pro Glu Asp Arg Ser Leu Leu Thr Met Glu Ala
85 90 95
Met Leu Gly Leu Val Gly Arg Arg Leu Gly Leu His Thr Gly Tyr Arg
100 105 110
Glu Leu Arg Ser Gly Thr Val Tyr His Asp Val Tyr Pro Ser Pro Gly
115 120 125
Ala His His Leu Ser Ser Glu Thr Ser Glu Thr Leu Leu Glu Phe His
130 135 140
Thr Glu Met Ala Tyr His Arg Leu Gln Pro Asn Tyr Val Met Leu Ala
145 150 155 160
Cys Ser Arg Ala Asp His Glu Arg Thr Ala Ala Thr Leu Val Ala Ser
165 170 175
Val Arg Lys Ala Leu Pro Leu Leu Asp Glu Arg Thr Arg Ala Arg Leu
180 185 190
Leu Asp Arg Arg Met Pro Cys Cys Val Asp Val Ala Phe Arg Gly Gly
195 200 205
Val Asp Asp Pro Gly Ala Ile Ala Gln Val Lys Pro Leu Tyr Gly Asp
210 215 220
Ala Asp Asp Pro Phe Leu Gly Tyr Asp Arg Glu Leu Leu Ala Pro Glu
225 230 235 240
Asp Pro Ala Asp Lys Glu Ala Val Ala Ala Leu Ser Lys Ala Leu Asp
245 250 255
Glu Val Thr Glu Ala Val Tyr Leu Glu Pro Gly Asp Leu Leu Ile Val
260 265 270
Asp Asn Phe Arg Thr Thr His Ala Arg Thr Pro Phe Ser Pro Arg Trp
275 280 285
Asp Gly Lys Asp Arg Trp Leu His Arg Val Tyr Ile Arg Thr Asp Arg
290 295 300
Asn Gly Gln Leu Ser Gly Gly Glu Arg Ala Gly Asp Val Val Ala Phe
305 310 315 320
Thr Pro Arg Gly

delete



Attorney Docket : P31731 - 1 -
Group Art Unit: 1652

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/071,338

DATE: 03/19/2002
TIME: 17:52:51

Input Set : N:\Crf3\02272002\J071338.raw
Output Set: N:\CRF3\03192002\J071338.raw

L:18 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:19 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:653 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0
L:653 M:333 E: Wrong sequence grouping, Amino acids not in groups!
L:653 M:330 E: (2) Invalid Amino Acid Designator, 3
L:653 M:203 E: No. of Seq. differs, LENGTH:Input:324 Found:327 SEQ:19